

 <p style="text-align: center;">United States Environmental Protection Agency Washington, DC 20460</p> <p style="text-align: center;"><b>Interagency Agreement/ Amendment</b></p> <p style="text-align: center;"><b>Part 1 - General Information</b></p>		1. EPA IA Identification Number DW-12-92360001 - 0		2. Funding Location by Region EPA R5					
		3. Other Agency IA ID Number (if known) 12-IA-11090100-008		4. Awarding Office IASSC East					
		5. Type of Action New		6. IA Specialist: Lenore Connell 202-564-5343  Connell.Lenore@epamail.epa.gov					
7. Name and Address of EPA Organization US Environmental Protection Agency IASSC East 1200 Pennsylvania Avenue, NW Mail code 3903R Washington, DC 20460				8. Name and Address of Other Agency Department of Agriculture-Forest Service 626 E. Wisconsin Avenue, Suite 300 Milwaukee, WI 53202					
9. DUNS: 029128894		10. BETC: DISB		11. DUNS: 929332484					
				12. BETC: COLL					
<b>13. Project Title and Description</b> Forest Service Great Lakes Restoration Initiative  Pursuant to the Consolidated Appropriations Act, 2012, P.L. 112-74, EPA is providing funds to USDA's Forest Service to help implement strategic, priority actions within the scope of the Great Lakes Restoration Initiative to achieve the vision of a restored, protected and sustainable Great Lakes ecosystem. Among other items, the Forest Service will reduce toxic substances in Brownfield Sites, mitigate the emerald ash borer, restore urban and community forests, and restore habitat for endangered and threatened species.									
<b>14. EPA Project Officer (Name, Address, Telephone Number)</b> Elizabeth Laplante 77 West Jackson Blvd. (G-17J) Chicago, IL 60604-3507 312-353-2694 E-Mail: LaPlante.Elizabeth@epamail.epa.gov FAX: 312-886-6869			<b>15. Other Agency Project Officer (Name, Address, Telephone)</b> Nick Vrevich 626 E. Wisconsin Avenue, Suite 300 Milwaukee, WI 53202 414.297-3350 E-Mail: nvrevich@fs.fed.us FAX: 414-944-3975						
16. Project Period: 05/01/2012 to 12/31/2016			17. Budget Period: 05/01/2012 to 12/31/2016						
<b>18. Scope of Work (See Attachment)</b> See attached Scope of Work.  Line (h): Rental fees for equipment and use of Forest Service fleet vehicles.									
19. Employer/Tax ID No. 520852695		20. CAGE No: 347A4		21. ALC: 68-01-0727					
<b>22. Statutory Authority for Transfer of Funds and Interagency Agreement</b> Clean Water Act: Sec. 104(b)(2); Consolidated Appropriations Act; 2012; Public Law 112-74				<b>23. Other Agency Type</b> Federal Agency					
<b>24. Revise Reimbursable Funds and Direct Fund Cites (only complete if applicable)</b>									
	Previous Funding	This Action		Amended Total					
Revise Reimbursable (in-house)				0					
Direct Fund Cite (contractor)				0					
Total				0					
	Funds	Previous Amount	Amount This Action	Total Amount					
25. EPA Amount			\$6,718,080	\$6,718,080					
26. EPA In-Kind Amount				\$0					
27. Other Agency Amount			\$0	\$0					
28. Other Agency In-Kind Amount				\$0					
29. Total Project Cost			\$6,718,080	\$6,718,080					
<b>30. Fiscal Information</b>									
Treas. Symbol	DCN	FY	Appropriation	Budget Org	PRC	Object Class	Site/Project	Cost Org	Ob/De-Ob Amt
682/30108	1205HAX011	1213	B	05HF0	202BJ7XF1	2506			1,497,692
682/30108	1205HAX011	1213	B	05HF0	202BJ7XF2	2506			2,528,735
682/30108	1205HAX011	1213	B	05HF0	202BJ7XF3	2506			421,885



Fiscal (Continued)									
Treas. Symbol	DCN	FY	Appropriation	Budget Org	PRC	Object Class	Site/Project	Cost Org	Ob/De-Ob Amt
682/30108	1205HAX011	1213	B	05HF0	202BJ7XF4	2506	-	-	2,077,940
682/30108	1205HAX011	1213	B	05HF0	202BJ7XF5	2506	-	-	191,828
									6,718,080

EPA Form 1610-1 (Rev. 11-09). Previous editions are obsolete.

Part II - Approved Budget				EPA IAG Identification Number DW-12-92360001 - 0
31. Budget Categories	Itemization of All Previous Actions	Itemization of This Action	In-Kind Itemization of This Action	Itemization of Total Project Cost to Date
(a) Personnel		\$803,310		\$803,310
(b) Fringe Benefits		\$214,213		\$214,213
(c) Travel		\$44,204		\$44,204
(d) Equipment		\$188,521		\$188,521
(e) Supplies				\$0
(f) Procurement / Assistance		\$5,093,635		\$5,093,635
(g) Construction				\$0
(h) Other		\$133,118		\$133,118
(i) Total Direct Charges	\$0	\$6,477,001	\$0	\$6,477,001
(j) Indirect Costs:	\$0	\$241,079		\$241,079
Charged - Amount Rate: % Base: \$ Not Charged: Funds-Out: Not charged by Other Agency Estimate by other Agency Amount \$				
(k) Total (EPA Share 100.00 %) (Other Agency Share 0.00 %)	\$0	\$6,718,080	\$0	\$6,718,080
32. How was the IDC Base calculated? Per agreement with the EPA, Forest Service and all other GLRI partners agreed to an indirect cost rate of no more than 5%.				
33. Is equipment authorized to be furnished by EPA or leased, purchased, or rented with EPA funds? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Identify all equipment costing \$1,000 or more) Portable boat washing station.				
34. Are any of these funds being used on extramural agreements? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Type of Extramural Agreement Grant ; Contract				
Contractor/Recipient Name (if known)	Total Extramural Amount Under This Project		Percent Funded by EPA (if known)	
TBD	5093635 Total \$ 5,093,635.00		100	
Part III - Funding Methods and Billing Instructions				
35.	(Note: EPA Agency Location Code (ALC) - 68010727)			
<input checked="" type="checkbox"/> Disbursement Agreement	Request for repayment of actual costs must be itemized on SF 1080 and submitted to the Financial Management Office, Cincinnati, OH 45268-7002:			
<input checked="" type="checkbox"/> Repayment	<input type="checkbox"/> Monthly <input checked="" type="checkbox"/> Quarterly <input type="checkbox"/> Upon Completion of Work			
<input type="checkbox"/> Advance	Only available for use by Federal agencies on working capital fund or with appropriate justification of need for this type of payment method. Unexpended funds at completion of work will be returned to EPA. Quarterly cost reports will be forwarded to the Financial Management Center, EPA, Cincinnati, OH 45268-7002.			
<input type="checkbox"/> Allocation Transfer-Out	Used to transfer obligational authority or transfer of function between Federal agencies. Must receive prior approval by the Office of Comptroller, Budget Division, Budget Formulation and Control Branch, EPA Hdqtrs. Forward appropriate reports to the Financial Reports and Analysis Branch, Financial Management Division, PM-226F, EPA, Washington, DC 20460.			
36. <input type="checkbox"/> Reimbursement Agreement	<input type="checkbox"/> Repayment <input type="checkbox"/> Advance			
<input type="checkbox"/> Allocation Transfer-In				
Other Agency's Billing Address (include ALC or Station Symbol Number)			Other Agency's Billing Instructions and Frequency	

**Part IV - Acceptance Conditions**

EPA Identification Number

DW-12-92360001 - 0

37. Terms and Conditions, when included, are located at the end of the 1610-1, or as an attachment.

**Part V - Offer and Acceptance**

**Note:** A) For Fund-out actions, the agreement/amendment must be signed by the other agency official in duplicate and one original returned to the Grants and IA Management Division for Headquarters agreements or to the appropriate EPA Regional IA administration office within 3 calendar weeks after receipt or within any extension of time that may be granted by EPA. The agreement/amendment must be forwarded to the address cited in item 29 after acceptance signature.

Failure to return the properly executed document within the prescribed time may result in the withdrawal of offer by EPA. Any change to the agreement/amendment by the other agency after the document is signed by the EPA Award Official, which the Award Official determines to materially alter the agreement/amendment, shall void the agreement/amendment.

B) For Funds-In actions, the other agency will initiate the action and forward two original agreements/amendments to the appropriate EPA program office for signature. The agreements/amendments will then be forwarded to the appropriate EPA IA administration office for signature on behalf of the EPA. EPA will return one original copy after acceptance returned to the other agency after acceptance.

EPA IA Administration Office (for administrative assistance)

EPA Program Office (for technical assistance)

38. Organization/Address

39. Organization/Address

U.S. Environmental Protection Agency  
IASSC East  
1200 Pennsylvania Avenue, NW Mail code 3903R  
Washington, DC 20460

US Environmental Protection Agency  
R5 - Region 5  
77 West Jackson Blvd.  
Chicago, IL 60604-3507

**Award Official on Behalf of the Environment Protection Agency**

40. Digital signature applied by EPA Award Official | FOR Frank N. Roth - Chief Fellowship IA & SEE Branch  
Michelle Messick - AO delegate

Date

05/24/2012

**Authorizing Official on Behalf of the Other Agency**

41. Signature

Typed Name and Title

Date

Charles L. Myers, Regional Forester, Eastern Region

05/29/2012

## **IA Terms and Conditions**

### **1. Resolution of Disagreements**

Should disagreements arise on the interpretation of the provisions of this agreement or amendments and/or revisions thereto, that cannot be resolved at the operating level, the area(s) of disagreement shall be stated in writing by each party and presented to the other party for consideration. If agreement or interpretation is not reached within 30 days, the parties shall forward the written presentation of the disagreement to respective higher officials for appropriate resolution.

If a dispute related to funding remains unresolved for more than 30 calendar days after the parties have engaged in an escalation of the dispute, disputes will be resolved in accordance with instructions provided in the Treasury Financial Manual (TFM) Volume I, Part 2, Chapter 4700, Appendix 10, available at <http://www.fms.treas.gov/tfm/index.html>.

### **2. Cost Collection Upon Cancellation**

If the Environmental Protection Agency cancels the order, the IA recipient is authorized to collect costs incurred prior to cancellation of the order plus termination costs, up to the total payment amount provided for under the agreement.

### **3. Indirect Costs and Audit Findings**

The parties to this agreement certify that (1) any indirect costs included in billings to EPA represent, in accordance with generally accepted accounting principles, indirect costs that would not have been otherwise incurred by the performing agency, or (2) statutory authority exists for charging other than the incremental costs of performance. If an audit determines that any direct or indirect costs charged to EPA are unallowable, EPA will be notified immediately following the resolution of the audit and EPA will be credited those amounts.

### **4. Billing/Payment**

When submitting invoices to the Office of the Chief Financial Officer/Cincinnati Finance Center (OCFO/CFC) requesting payment, a breakdown of the costs associated with the invoice must be provided to the EPA Project Officer (EPA PO). This information allows the EPA PO to determine that costs billed to EPA are necessary and reasonable. If this information is not provided, the EPA PO will notify the OCFO/CFC to suspend or charge back the payment.

5. (Note: This condition goes in all Funds-Out awards with FY12 or FY12/13 funds in procurement/Assistance)

### **Restrictions on FY12 Funding for Corporations with Unpaid Federal Tax Liabilities and Felony Convictions**

This IA obligates and transfers or advances EPA funds appropriated under the Department of Interior, Environment, and Related Agencies Appropriations Act, (FY12 Appropriations Act). As a result, this interagency agreement (IA) is subject to the provisions of Division E, Sections 433 and 434 of the Appropriations Act, regarding federal felony convictions and unpaid federal tax liabilities. Specifically,

Section 433 provides:

None of the funds made available by this Act [FY12 Appropriations Act] may be used to enter into a contract, memorandum of understanding, or cooperative agreement with, make a grant to, or provide a loan or loan guarantee to, any corporation that was convicted (or had an officer or agent

of such corporation acting on behalf of the corporation convicted) of a felony criminal violation under any Federal law within the preceding 24 months, where the awarding agency is aware of the conviction, unless the agency has considered suspension or debarment of the corporation, or such officer or agent, and made a determination that this further action is not necessary to protect the interests of the Government.

Section 434 of Division E of the Appropriations Act further provides:

None of the funds made available by this Act [FY12 Appropriations Act] may be used to enter into a contract, memorandum of understanding, or cooperative agreement with, make a grant to, or provide a loan or loan guarantee to, any corporation with respect to which any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability, where the awarding agency is aware of the unpaid tax liability, unless the agency has considered suspension or debarment of the corporation and made a determination that this further action is not necessary to protect the interests of the Government.

Accordingly, by accepting the award of this IA, the Recipient agrees that it will comply with and implement the prohibitions of Sections 433 and 434 for any contract, assistance agreement, loan, loan guarantee or other instrument with any corporation that will be funded with funds provided under this IA.

Non-compliance with the provisions of Sections 433 and 434 may implicate the Antideficiency Act. The Recipient will forward to the EPA Award Official, within 45 days, any determination and documentation supporting an award where suspension and debarment are considered by the awarding agency.

#### **6. IAs with Contracts or Procurement (Disadvantaged Business Enterprise-MBE/WBE Reporting)**

In accordance with Public Law 102-389, EPA's policy requires, to the fullest extent possible, that at least 8% of its overall Federal funding for prime and subcontracts awarded in support of authorized programs be awarded to business concerns or other organizations owned or controlled by socially and economically disadvantaged individuals, including historically Black colleges and universities and women. Also, in accordance with CERCLA, as amended (P.L. 99-499), Section 105, any Federal agency awarding contracts, grants or cooperative agreements utilizing Superfund monies shall consider the availability of minority contractors for participation in contracts. This includes, but is not limited to: contracts, subcontracts, and any subagreements.

The IA recipient will also strive to meet EPA's SBA negotiated goals for awarding contracts to small and disadvantaged businesses. The IA recipient will accomplish these objectives through adherence to the small and minority owned business requirements set forth in the Small Business Act, 15 U.S.C. 631 et seq., and the annual Small Business goals negotiated with the IA recipient and the Small Business Administration. All reporting on MBE/WBE and small business accomplishments will be done through the existing federal contracting reporting mechanism, currently the "Federal Procurement Data System, Next Generation (FPDS-NG)," which is available at: <https://www.fpds.gov/fpdsng/cms/>.





# **Great Lakes Restoration Initiative Interagency Agreement Scope of Work**

**AGENCY NAME:** USDA Forest Service  
**CONTACT INFORMATION:** Nick Vrevich  
(nvrevich@fs.fed.us)  
626 E. Wisconsin Ave.  
Milwaukee, WI 53202

## **1. INTRODUCTION**

Recognizing that the Great Lakes ecosystem is an invaluable resource containing over 20% of the world's surface freshwater and providing drinking water to over 40 million people, the Administration, in 2009, announced the Great Lakes Restoration Initiative (GLRI) to protect, restore and maintain the Great Lakes ecosystem. In conjunction with 15 other Federal Agencies, the USEPA will implement strategic, priority actions to achieve the vision of a restored, protected and sustainable Great Lakes ecosystem.

The purpose of this Interagency Agreement (IA) is to provide funding to the US Forest Service (USFS) to help implement the priorities of the GLRI. Specifically, this IA will help complete development of the Great Lakes Restoration Initiative Action Plan (Action Plan) and implement priority programs, projects, and activities to protect, restore and maintain the Great Lakes ecosystem. This IA will also utilize USFS to implement priorities, programs and projects of the Great Lakes Water Quality Agreement such as the Lakewide Management Plans, the Remedial Action Plans for Areas of Concern, the Binational Toxics Strategy, and the Cooperative Science and Monitoring Initiatives, among others.

The GLRI Action Plan identifies goals, objectives, measurable ecological targets, and specific actions for five focus areas—Toxic Substances and Areas of Concern; Invasives Species; Nearshore Health and Nonpoint Source Pollution; Habitat and Wildlife Protection and Restoration; and, Accountability, Education, Monitoring, Evaluation, Communication and Partnerships.

### ***Focus Areas and FY 2012 Allocations***

With Fiscal Year 2012 allocations, and with the funds transferred under this IA, the Forest Service will undertake actions in the focus areas below. The activities that the Forest Service will undertake are set forth by the attached Narrative Scopes of Work (Paragraph 3). The Terms and Conditions can be found in Paragraph 4.

## 2. BUDGET & PROJECT DETAIL

**FY 2012 Amount -- \$6,718,080**

<b>FY 2012 ID</b>	<b>Focus Area</b>	<b>Unit</b>	<b>Program/Template</b>	<b>FY2012 Allocation</b>
2012- 039	Toxic Substances	S&P	Reduce Toxic Substances in Brownfield Sites	\$ 1,497,692
2012- 007	Invasive Species	NFS	Education/Outreach to Hunters/Anglers/Public on Invasive Species	\$ 841,580
2012- 010	Invasive Species	NFS	Cooperative Weed Management Areas	\$ 421,500
2012- 038	Invasive Species	S&P	Emerald Ash Borer Mitigation	\$ 1,265,655
2012-009	Near Shore	NRS	Linking Land Use to Water Quality	\$ 42,189
2012- 040	Near Shore	S&P	Restore Urban and Community Forests	\$ 189,848
2012- 041	Near Shore	S&P	Development of Ecosystem Services Markets	\$ 189,848
2012- 005	Habitat	NFS	Endangered/Threatened Species Habitat Restoration	\$ 673,000
2012- 006	Habitat	NFS	Aquatic Organism Passage	\$ 855,000
2012- 302	Habitat	NFS	Stream and Lake Habitat Restoration/Improvement	\$ 406,500
2012-664	Habitat	NRS	Future of Black Ash Wetlands in the Northern Great Lakes	\$ 143,440
2012- 329	AEMECF	NFS	Support for GLRI, LaMPs, & Priority Projects	\$ 191,828
<b>Total</b>				<b>\$ 6,718,080</b>

## 3. NARRATIVE SCOPE OF WORK:

## TEMPLATE #2012-005

### ENDANGERED/THREATENED SPECIES HABITAT RESTORATION

**Funding:** \$673,000

**Description:** Federally Threatened and Endangered Species, Species of Conservation Concern, and Wetland and Terrestrial Habitat Restoration.

**Purpose:** Protect & Restore Habitat for Federally Endangered and Threatened Species and Species of Concern in the Great Lakes Watershed. Work will occur in or adjacent to National Forest System lands in the Great Lakes basin, accomplished by Forest Service personnel or through appropriate contracts or agreements.

Wetlands and Associated Coastal Areas. Some projects identified seek to contribute to the recovery of federally listed species associated with wetlands and coastal areas, such as the Piping Plover, Hine's Emerald Dragonfly, and Lakeside Daisy. In addition, some projects benefit the conservation of species experiencing population declines, thereby precluding the need for their listing under the Endangered Species Act. Examples include American black duck, black tern, common tern, king rail, diving ducks, and various shorebirds. Important aquatic, coastal wetlands and shorelines, riparian areas, inland wetland habitats are the primary target of restoration and monitoring actions.

Wetlands and Associated Upland (Terrestrial) Species. Some projects seek to contribute to the recovery of federally listed species such as Gray Wolf, Kirtland's Warbler, Canada Lynx, Eastern Massasauga, and Karner Blue Butterfly. Other projects will benefit species of conservation concern, such as Golden-winged Warbler, Grasshopper Sparrow, Henslow's Sparrow, American Martin, and American Woodcock. Important riparian and upland areas in the Great Lakes watershed are the target of restoration and monitoring actions.

**Authority:** Interior and Related Agencies Appropriations Act of 1992 (Public Law 102-154); Wyden Amendment (Public Law 105-277, Section 323 as amended by Public Law 109-54, Section 434); P.L. 112-74, Consolidated Appropriations Act of 2012; and other authorities as applicable.

**Great Lakes Action Plan Measure of Progress:**

Focus Area 4, Habitat Protection and Restoration, Measure 7; number of acres of coastal, upland and island habitats protected, restored and enhanced.

National Forest	State	Template # 5: Threatened/Endangered Species Habitat Restoration	Amount	Number of acres protected, restored or enhanced
Chequamegon-Nicolet	Wisconsin	Restoration of historic barrens ecosystem and upland habitat through the use of prescribed fire in a fire adapted ecosystem. Three different projects.	\$60,000	1745
Chequamegon-Nicolet	Wisconsin	Bat Roosting Structure Creation; building renovations at Lost Lake Camp has displaced a large bat roosting area. This project would use an abandoned water tower to create a bat roost site.	\$10,000	10
Chequamegon-Nicolet	Wisconsin	Restoration and improvement of upland openings for sandpiper habitat by removal of encroaching woody vegetation and improve forbs/grass communities for foraging, breeding display and brood rearing habitat.	\$23,000	180
Chequamegon-Nicolet	Wisconsin	Wood Turtle nest site creation. Populations of this T&E species are limited due to lack of nest sites and predation of nests.	\$7,000	1
Chequamegon-Nicolet	Wisconsin	White Nose Syndrome Bat surveys: This project would implement acoustic bat surveys and mist netting bats to gather demographic information and look for WNS.	\$15,000	400
Chequamegon-Nicolet	Wisconsin	Native Plant and Pollinator project consists of butterfly surveys, native seed collection, and bilberry propagation within the Catwillow Monarch Area.	\$20,000	8
Finger Lakes	New York	Restore wetlands for woodcock, Henslow & Grasshopper sparrows, and bat species	\$35,000	300
Finger Lakes	New York	Restore native grasslands for golden-winged warbler, Northern Harrier, Bobolink	\$50,000	400
Hiawatha	Michigan	Prescribed burning for barren/savanna habitat restoration - forestwide. Savanna habitat restoration (planting native trees, grasses, forbs, controlling NNIS, etc)	\$45,000	800
Hiawatha	Michigan	Kirtland's warbler habitat restoration - forestwide	\$50,000	100
Hiawatha	Michigan	Early successional habitat restoration - non commercial aspen regeneration, age-class distribution improvement, openings restoration - forestwide	\$40,000	200
Huron-Manistee	Michigan	Kirtland Warbler and Gol-Winged Warbler habitat enhancement	\$11,000	365
Ottawa	Michigan	Continue forest wide Herptile surveys and fence 6 stream crossings to prevent turtle mortality and enhance 12 ephemeral ponds for amphibian breeding (sedimentation) (FY12)	\$100,000	18
Ottawa	Michigan	Bat hibernaculum protection and monitoring. (FY12)	\$30,000	800
Superior	Minnesota	TES Habitat Seeding - GWW, goshawk, moose, lynx habitat enhancement	\$15,000	200
Superior	Minnesota	TES Habitat Diversity Planting - GWW, goshawk, moose, lynx habitat enhancement	\$55,000	200
Superior	Minnesota	TES Site Prep for Natural Regeneration - GWW, goshawk, moose, lynx habitat enhancement	\$75,000	350
		Indirect Costs: Administrative and accounting support	\$32,000	
<b>Template #5 Totals</b>			<b>\$673,000</b>	<b>6077</b>

**Template #2012-006**  
**Aquatic Organism Passage**  
**Funding: \$855,000**

**Description:** Culvert replacement or removal for stream simulation will occur at road-stream crossings on national forests and adjacent lands. Fish species that will benefit include brown, brook, and rainbow trout; greater redhorse; and Chinook and coho salmon.

**Purpose:** The purpose of these projects is to implement an ecosystem-based approach for designing and constructing a channel through the road-stream crossing structure that reestablishes physical and ecological continuity along the stream corridor. Improving aquatic organisms passage will improve aquatic ecosystem resiliency and will maintain or improve the population status of valuable sport fish species, as well as that of threatened, endangered, and sensitive aquatic species. With these projects, the Eastern Region of the US Forest Service will seek to restore stream continuity in roaded ecosystems by replacing crossings that are barriers to aquatic species with structures that simulate the natural stream channel. The environmental benefit of these efforts will be to provide passage through these crossings that is no more difficult than movement through the natural channel for a wide variety of aquatic organisms. Another important benefit of this work is that the affected road infrastructure, on and off Forest Service land, will be much less likely to fail as a result of flooding and extreme weather events associated with climate change.

**Authority:** Cooperative Funds and Deposits Act of December 12, 1975, Pub. L. 94-148, 16 U.S.C. 565a1-a3; and the Wyden Amendment, Section 323(a) of the Department of Interior and Related Agencies Appropriations Act, 1999, as included in Pub.L. 105-277, Div. A, Section 101 (e), as amended by Pub.L. 109-54, Sec. 434.; Pub.L. 112-74, Consolidated Appropriations Act of 2012; and other authorities as applicable.

**Great Lakes Action Plan Measure of Progress:**

Focus Area 4, Habitat Protection and Restoration, Measure 1; miles of river reopened for fish passage, and Measure 2; number of fish passage barriers removed or bypassed.

National Forest	State	Template # 6: Aquatic Organism Passage	Amount	Miles or river reopened
Chequamegon-Nicolet	Wisconsin	Armstrong Creek (west branch) at Wosniak Road; culvert sized to match bankfull width and pass the 100-yr flood.	\$75,000	3
Chequamegon-Nicolet	Wisconsin	Un-named tributary of Trout Brook at Forest Road 390 (Upper Site); culvert sized to match bankfull width and pass the 100-yr flood.	\$60,000	2.8
Chequamegon-Nicolet	Wisconsin	20 Mi Creek at Forest Road 202; culvert sized to match bankfull width and pass the 100-yr flood.	\$45,000	0.3
Hiawatha	Michigan	Little Bear Creek crossing (Forest Road-3511 and/or Forest Road 3517)	\$100,000	1
Huron-Manistee	Michigan	Peterson Creek - replace road/stream culvert crossing limiting fish passage	\$250,000	7
Ottawa	Michigan	West Branch Jumbo River @ Forest Road 3616, planning and implementation.	\$175,000	4.1
Superior	Minnesota	Replace County Road Crossing in Cook County	\$110,000	5
		Indirect Costs: Administrative and accounting support	\$40,000	
		<b>Template #6 Totals</b>	<b>\$855,000</b>	<b>23.2</b>

## **Template #2012-007**

### **Education/Outreach to Hunters/Anglers/Public on Invasive Species**

**Funding:** \$841,580

**Description:** This template consists of projects of three types that relate to aquatic invasive species education and outreach.

The first project is an outreach and education project to inform recreational boaters of steps they can take to prevent the spread of aquatic invasive species in the Great Lakes basin. To help recreational boaters take appropriate actions and to assist in slowing the spread of invasive species, this project will deploy and staff boat washing equipment in and around northern Forests in the basin. The environmental outcome of this work is that 10,000 to 15,000 recreational boats will be inspected and cleaned each year, with facilities in place to clean more boats in coming years. Also, over 60,000 citizens will receive messages through face-to-face conversations, signs at boat ramps, brochures, and other informational materials about best practices for preventing the spread of aquatic invasive species.

The second project involves a partnership with Wildlife Forever to expand their Threat Campaign in the Great Lakes basin. With support from the Forest Service and other federal and state agencies, Wildlife Forever will develop and market messages targeted to the boating, angling, hunting, and outdoor recreational communities about what individuals can do to stop the spread of aquatic and terrestrial invasive species. Wildlife Forever will deploy educational advertising media, including billboards and public service announcements, in all of the states in the Eastern Region of the Forest Service that lie within the Great Lakes basin. Wildlife Forever will also produce and obtain broadcast airtime for television segments about invasive species in the Great Lakes region. These segments will feature high-profile invasive species, including Asian carps, sea lamprey, round goby, zebra and quagga mussels, and Eurasian watermilfoil. In addition to broadcast distribution, these video segments will be posted on-line and placed on DVD to be used in museums, aquaria, and school classrooms in support of aquatic invasive species education. These activities will result in at least 10 million public impressions.

The third project consists of partnerships with the Reiman Aquarium at Discovery World and Shedd Aquarium. The purpose of this project is to increase public awareness of invasive species and knowledge of how to prevent their introduction and spread. Pursuant to agreements with the US Forest Service, Discovery World and Shedd Aquarium will educate their audiences about the ecological and economic impacts of aquatic invasive species in the Great Lakes region. Education will be delivered to diverse audiences through interpretive material in exhibit spaces and through youth camp curricula. In addition to teaching people about aquatic invasive species, the aim of this project is to promote active stewardship of aquatic resources in the Great Lakes basin. Discovery World and Shedd Aquarium anticipate that over 200,000 people will receive information about aquatic invasive species.

**Authority:** Forest Service Organic Administration Act of 1897 (16 U.S.C. §§ 473-478, 479-482 and 551, June 4, 1897, as amended 1905, 1911, 1925, 1962, 1964, 1968 and 1976). Cooperative Funds and Deposits Act of December 12, 1975, Pub. L. 94-148, 16 U.S.C. 565all-

a-3; and the Wyden Amendment, Section 323(a) of the Department of Interior and Related Agencies Appropriations Act, 1999, as included in Pub.L. 105-277, Div. A., Section 101 (e), as amended by Pub.L. 109-54, Sec. 434; Pub.L. 112-74, Consolidated Appropriations Act of 2012; and other authorities as applicable.

### Great Lakes Action Plan Measure of Progress:

Focus Area 2, Invasive Species, Measure 4, number of recreation and resource users contacted (impressions) on best practices that prevent the introduction and spread of invasive species.

National Forest	State	Template # 7: Education/Outreach - to hunters anglers and the general public on aquatic invasive species.	Amount	Number of users contacted
Chequamegon-Nicolet	Wisconsin	Outreach to recreating public on newly developed "Best Management Practices (BMPs) for Preventing the Spread of Invasive Species by Outdoor Recreation Activities in Wisconsin". Helping the public to know and understand these new BMPs through a variety of interactions including face-to-face encounters, workshops, written materials, presentations, etc	\$14,000	1,750
Hiawatha	Michigan	Forest user outreach/education instruction and materials regarding invasive species	\$30,000	500
Huron-Manistee	Michigan	Manistee County Aquatic Invasive Species Suppression, Monitoring, and Education Partnership	\$124,090	500
Ottawa	Michigan	Support for aquatic invasive species (AIS) outreach, education, and boat inspection and cleaning by partners in the Western Peninsula Invasives Coalition (i.e., continued staffing of 3 portable boat washers purchased in FY2010), includes funds for staffing, liability insurance, gas, truck use. Forest Service seasonal crew to staff portable boat washer. Other prevention efforts: billboards, radio ads, parades, newspaper, etc.	\$110,000	302,000
Ottawa	Michigan	Produce and install AIS informational signs (15 signs over 2 yrs)	\$5,490	1,500
Regional Office	Wisconsin	Wildlife Forever partnership - Threat Campaign	\$398,000	10,000,000
Regional Office	Wisconsin	Discovery World and Shedd Aquarium - exhibits and youth camps	\$100,000	200,000
Superior	Minnesota	Co-funding Mn Sea Grant position dedicated to aquatic invasives	\$20,000	10,000
		Indirect Costs: administration and accounting support	\$40,000	
		<b>Template #7 Totals</b>	<b>\$841,580</b>	<b>10,516,250</b>



## **Template #2012-009**

### **Linking Land Use to Water Quality**

**Funding:** \$42,189

**Authority:** Pub. L. 111-88, the Interior, Environment and Related Agencies Appropriations Act, 2010, and the Forest and Rangeland Renewable Resources Research Act of 1978, as amended (16 U.S.C. 1641-1646, Pub. L. 95-307); Pub. L. 112-74 Consolidated Appropriations Act of 2012; and other authorities as applicable.

**Work:** Under this template in FY 10, USFS produced models linking watershed land-use (including but not limited to USFS Forest Inventory and Analysis (FIA) data) to near-shore water quality (phosphorus and turbidity) measured at EPA and USGS monitoring stations in Lakes Superior and Michigan. These models are being used to prioritize non-monitored watersheds for restoration activities designed to control phosphorus and sediment loading in Lakes Superior and Michigan; un-gauged watershed represent between 20 to 50 percent of the total area draining into the two lakes. FY12 funding support will facilitate finalization of watershed restoration priorities in Lakes Superior and Michigan;. Additionally, the Forest Service will publish and deliver to EPA a database of forest land-cover change over the past 25 years extracted from the Landsat data archive. This database was prepared to assist the modeling effort with strict quality assurance procedures, and our goal is to share it with EPA, its clients, and partners.

**Milestones:** By September 30, 2012, the Forest Service will deliver watershed prioritizations for the control of near-shore phosphorus and turbidity loading. The additional datasets developed to complete these prioritizations – such as satellite imagery attributed with forest characteristics – will also be packaged and delivered for use by the broader resource management community.

#### **Great Lakes Action Plan Measure of Progress:**

This project is most closely aligned with Focus Area 3, Nearshore Health and Nonpoint Source Pollution, Measure 1; five year average annual loadings of soluble reactive phosphorus from tributaries draining targeted watersheds. This project does not focus narrowly on the targeted watersheds, but it facilitates reductions in phosphorus and sediment loading across the entire watershed of Lakes Superior and Michigan by identifying which watersheds are likely contributors and require restoration activities.

## **TEMPLATE #2012-010**

### **COOPERATIVE WEED MANAGEMENT AREAS**

**Funding:** \$421,500

**Description:** Establishment and strengthening of Cooperative Weed Management Areas along the five Great Lakes within the eight Great Lakes States led by the Forest Service and assisted by the Midwest Natural Resource Group (MNRG) interagency staffing and support.

**Purpose:** The purpose of this project is to support Cooperative Weed Management Areas (CWMA) along the five Great Lakes shorelines and within the eight Great Lakes states. Cooperative Weed Management Areas are local organizations that integrate all invasive plant management resources across jurisdictional boundaries in order to benefit entire communities. The formal agreement created during the formation of a Cooperative Weed Management Area establishes a long-term relationship that does not disappear after a joint project is completed. Cooperative Weed Management Areas are highly visible, building community awareness and participation as well as focusing attention and presenting a united effort to state and federal agencies. Cooperative Weed Management Areas can provide an early detection and rapid response network by ensuring that partners are aware of and are able to identify new invaders and have a response mechanism. Cooperative Weed Management Areas can help to secure and leverage funding for invasive species management. The funding will support Cooperative Weed Management Areas with defined areas in close proximity or adjacent to the Great Lakes shoreline.

**Authority:** Forest Service Organic Administration Act of 1897 (16 U.S.C. §§ 473-478, 479-482 and 551, June 4, 1897, as amended 1905, 1911, 1925, 1962, 1964, 1968 and 1976); Cooperative Forestry Assistance Act; Wyden Amendment (Public Law 109-54, Section 434); Cooperative Funds and Deposits Act of December 12, 1975, Pub. L. 94-148, 16 U.S.C. 565all-a-3; Challenge Cost Share Agreement as authorized by Interior and Related Agencies Appropriations Act of 1992 (Public Law 102-154); Pub. L. 112-74, Consolidated Appropriations Act Of 2012; and other authorities as applicable.

#### **Great Lakes Action Plan Measure of Progress:**

Focus Area 2, Invasive Species, Measure 2; acres managed for populations of invasive species controlled to a target level.

<b>USFS Unit</b>	<b>State</b>	<b>Template # 10: Cooperative Weed Management Areas</b>	<b>Amount</b>	<b>Number of acres managed or treated</b>
Chequamegon-Nicolet	Wisconsin	Northwoods Cooperative Weed Management Area	\$30,000	50 acres treated
Hiawatha	Michigan	Central Upper Peninsula CWMA	\$30,000	100
Hiawatha	Michigan	Eastern Upper Peninsula CWMA	\$30,000	100
Huron-Manistee	Michigan	Huron Pines CWMA	\$30,000	100
Huron-Manistee	Michigan	Northwest Michigan CWMA	\$30,000	100
Midewin	Illinois	Northern Illinois Invasive Plant Partnership	\$30,000	100
NA State&Private	New York	New York CWMA	\$30,000	100
NA State&Private	Pennsylvania	Western Pennsylvania CWMA	\$30,000	100
NA State&Private	Wisconsin	Door County CWMA	\$30,000	100
NA State&Private	Wisconsin	Southeast Wisconsin CWMA	\$30,000	100
Ottawa	Michigan	Northern UP CWMA	\$30,000	100
Ottawa	Michigan	Western UP CWMA	\$30,000	100
Regional Office	Indiana	Midwest Invasive Plant Network	\$10,000	
Superior	Minnesota	St. Louis County CWMA	\$30,000	100
		Indirect Costs: administration and accounting	\$21,500	
		<b>Template #10 Totals</b>	<b>\$421,500</b>	<b>1250</b>

## **TEMPLATE #2012-038**

### **EMERALD ASH BORER MITIGATION**

**Funding:** \$1,265,655

**Description:** Restore tree canopy lost to infestation by Emerald Ash Borer.

**Purpose:** Protect and Restore Nearshore, Urban and Island Habitats. Urban restoration after Emerald Ash Borer (EAB) induced impacts in high-value areas and unique ecosystems. Ash tree replacement with non-host species in urban communities. Protect and restore biodiversity and water quality in targeted sub-watersheds in Great Lakes areas of concern, and to reduce soil erosion and nutrient runoff (esp. phosphorus).

**Authority:** Cooperative Forestry Assistance Act; Pub. L. 112-74, Consolidated Appropriations Act of 2012; and other authorities as applicable.

**Work:** The USDA Forest Service will provide available funds through competitive grants to state, municipal, and nonprofit partners for tree replacement and restoration in areas of concern within the Great Lakes basin. Emphasis will be on working with communities and residents to mitigate EAB infestation by removing and destroying (dead or dying) ash trees and restoring diverse urban tree canopy cover on non-federal lands in urban and community areas. Replanting is critical to maintaining healthy, functioning tree canopy cover that will reduce and cool storm water flow, and protect water quality.

#### **Great Lakes Action Plan Measure of Progress:**

This project is most closely aligned with Focus Area 2, Invasive Species, Measure 2; acres managed for populations of invasive species controlled to a target level. The actual measure of progress for reporting purposes is the number of communities involved, the number of acres treated, the number of trees planted, and/or the percent of tree canopy restored.

**TEMPLATE #2012-039****REDUCE TOXIC SUBSTANCES IN BROWNFIELD SITES**

**Funding:** \$1,497,692

**Authority:** Cooperative Forestry Assistance Act; Pub. L. 112-74, Consolidated Appropriations Act of 2012; and other authorities as applicable.

**Work:** The USDA Forest Service will provide available funds through a competitive grants program to states, municipalities, nonprofit, and academic partners in areas of concern within the Great Lakes basin. Projects will address toxic substances in degraded brownfield sites by planting site appropriate trees and vegetation to take up and trap certain toxic substances, including phosphorus, and reduce storm water run-off. This project would include non-severable work since the restoration of green infrastructure must be accomplished in accordance with a specifically-designed plan with a defined end-product and end points for plantings.

**Great Lakes Action Plan Measure of Progress:**

This project is most closely aligned with Focus Area 1, Toxic Substances and Areas of Concern, Measure 5; pollution (in pounds) collected through prevention and waste minimization projects in the Great Lakes basin. The actual measure of progress for reporting purposes is the number acres treated and/or the number of trees planted.

## **TEMPLATE #2012-040**

### **RESTORE URBAN AND COMMUNITY FORESTS**

**Funding:** \$189,848

**Authority:** Cooperative Forestry Assistance Act; Pub. L. 112-74, Consolidated Appropriations Act of 2012; and other authorities as applicable.

**Work:** The USDA Forest Service will provide available funds through competitive grants to states, municipalities and non-profit partners to restore urban and community forests within the Great Lakes basin. Priority will be given to grant proposals for work within watersheds that drain to designated Areas of Concern. Projects will plant and maintain tree canopy cover tiered to implementation of existing assessments, management plans and monitoring protocols with a focus on reducing storm water runoff and improving water quality. Assessment tools include, but are not limited to, I-Tree Eco and I-Tree Streets, I-Tree Pest Detection, and Urban Tree Canopy (UTC) analysis.

#### **Great Lakes Action Plan Measure of Progress:**

This project is most closely aligned with Focus Area 3, Nearshore Health and Nonpoint Source Pollution, Goal 2: Land use, recreation and economic activities are managed to ensure that nearshore aquatic, wetland and upland habitats will sustain the health and function of natural communities; and Goal 5: A significant reduction in soil erosion and the loading of sediments, nutrients and pollutants into tributaries is achieved through greater implementation of practices that conserve soil and slow overland flow in agriculture, forestry and urban areas.

The actual measure of progress for reporting purposes is the number acres treated and/or the number of trees planted which supports Focus Area 4, Habitat and Wildlife Protection and Restoration, Measure 7: Number of acres of coastal, upland and island habitats protected, restored and enhanced.

**TEMPLATE #2012-041****DEVELOPMENT OF ECOSYSTEM SERVICES MARKETS****FUNDING:** \$189,848

**Authority:** Cooperative Forestry Assistance Act; Pub. L. 112-74, Consolidated Appropriations Act of 2012; and other authorities as applicable.

**Work:** The USDA Forest Service will provide available funds through competitive grants to states, municipalities, nonprofit and academic partners to protect and restore watersheds within the Great Lakes basin. Priority will be given to grant proposals for work within watersheds that drain to designated Areas of Concern. Similar to the Chesapeake Bay Bank model, this project will help protect and restore forested watersheds by providing decision support tools and incentives for the installation of best practices, and educating the public on the value of green infrastructure in protecting the Great Lakes. In cooperation with other land management agencies and outreach experts, projects will build an awareness and desire to implement green, storm water practices and maintain the forest land base of the Great Lakes in cooperation with State Forestry agencies.

**Great Lakes Action Plan Measure of Progress:**

This project is most closely aligned with Focus Area 3, Nearshore Health and Nonpoint Source Pollution, Goal 2: Land use, recreation and economic activities are managed to ensure that nearshore aquatic, wetland and upland habitats will sustain the health and function of natural communities; and Goal 5: A significant reduction in soil erosion and the loading of sediments, nutrients and pollutants into tributaries is achieved through greater implementation of practices that conserve soil and slow overland flow in agriculture, forestry and urban areas.

The actual measure of progress for reporting purposes is the number of communities or land owners implementing green infrastructure projects and/or estimated number of gallons of water diverted.

## **TEMPLATE # 2012-302**

### **STREAM AND LAKE HABITAT RESTORATION/IMPROVEMENT**

**Funding: \$406,500**

**Description:** The objective of stream restoration is to create a more natural stream system that is integrated within the watershed and the community in which it occurs. Stream restorations are not intended to merely recreate form without the functions of a natural stream, or the functions in an artificial configuration bearing little resemblance to a natural form. The upstream factors which are affecting the stream, as well as the downstream resources that would be impacted by any changes at the restoration site, need to be fully considered during the planning, restoration design and project implementation. Lake habitat restoration is initiated to provide habitat that historically occurred prior to human disturbances such as removal of shoreline vegetation and large wood. Prior to any type of restoration activities, knowledge of watershed processes is preferred as well as a working knowledge of habitat restoration and life history, disturbance and refugia, connectivity and fragmentation, food webs, ecological processes and species richness.

The purpose of this set of projects is to implement an ecosystem-based approach for designing and implementing the removal of dams, placement of large wood in both lakes and streams, and placement of spawning gravels. The projects reestablish physical, chemical, and biological, therefore, ecological integrity in watersheds.

**Authority:** Cooperative Funds and Deposits Act of December 12, 1975, Pub. L. 94-148, 16 U.S.C. 565a1-a3; and the Wyden Amendment, Section 323(a) of the Department of Interior and Related Agencies Appropriations Act, 1999, as included in Pub.L. 105-277, Div. A., Section 101 (e), as amended by Pub.L. 109-54, Sec. 434; Pub. L. 112-74, Consolidated Appropriations Act of 2012; and other authorities as applicable.

**Great Lakes Action Plan Measure of Progress:**

This project is most closely aligned with Focus Area 4, Habitat and Wildlife Protection and Restoration, Measure 7; number of acres of coastal, upland and island habitats protected, restored and enhanced. Other measures will also be tracked and reported, including miles of stream habitat restored.



<b>National Forest</b>	<b>State</b>	<b>Template # 302: Stream/Lake Habitat</b>	<b>Amount</b>	<b>Number of acres treated: Miles of stream restored.</b>
Chequamegon-Nicolet	Wisconsin	Brook Trout habitat restoration and enhancement. Restore and improve habitat by restoring width/depth ratios, adding large woody debris, riparian alder management and maintenance of free-flowing conditions.	\$65,000	125 miles
Chequamegon-Nicolet	Wisconsin	20 Mile Creek brook trout habitat restoration project: remove the abandoned concrete crossing that is partially collapsed into the stream causing significant damage. There is channel braiding for several hundred feet below crossing. The crossing/roadbed will be removed and the channel restored.	\$25,000	0.5 miles
Finger Lakes	New York	Restore streamside wetlands and riparian habitat via NNIS treatment and fencing	\$40,000	145 acres
Finger Lakes	New York	Large woody debris restoration in Spring Creek for brook trout (pilot project)	\$5,000	0.25 miles
Hiawatha	Michigan	Sturgeon River large wood and spawning habitat	\$75,000	20 miles
Huron-Manistee	Michigan	Wendy's Loop and phragmites control - supplementary funding	\$9,100	280 acres
Huron-Manistee	Michigan	Pine River Streambank Stabilization, 8 sites - 2 year project	\$33,000	1 acre
Huron-Manistee	Michigan	Au Sable River Streambank Stabilization and sedimentation treatment	\$40,000	5 acres
Ottawa	Michigan	Riparian Underplanting: Improve riparian areas along Two Mile Creek by planting long-lived conifers.	\$10,000	30 acres
Ottawa	Michigan	Stream and lake habitat restoration through large wood placement	\$55,000	6 stream miles, 78 lake acres
Ottawa	Michigan	Wild Rice Restoration; Blair, Stickley, Cowslip, and Little Beaton lakes	\$10,000	4 acres
Superior	Minnesota	Large woody debris installation in North Shore streams	\$10,000	6 acres
Superior	Minnesota	Salo Lake - large wood introduction for habitat improvement	\$10,000	20 acres
		Indirect costs: administration and accounting	\$19,400	
		<b>Template #302 Totals</b>	<b>\$406,500</b>	<b>152 miles, 291 acres</b>

## **Template # 2012-329**

### **Support for GLRI, LaMPs & Priority Projects**

**Funding: \$191,828**

**Description:** The Forest Service will participate in the Great Lakes Restoration Initiative (GLRI) and Great Lakes Water Quality Agreement (GLWQA) programs, processes and activities including the Lakewide Management Plans and Programs (LaMPs) and the State of the Lakes Ecosystem Conference (SOLEC). Such activities shall include, but not be limited to, meetings, conferences, and workshops directly tied to carrying out and implementing the GLRI and GLWQA.

**Purpose:** The purpose of this project is to add capacity and advance Forest Service participation in the implementation of the LaMPs. The Forest Service can bring unique skills and tools to the table to protect and restore the Great Lakes. The Forest Service has a history of working across boundaries with many partners to promote conservation and restoration of ecosystems. Our contributions will benefit each of the Basins.

**Authority:** The Statutory Authority of this IA is P.L. 111-88, the Interior, Environment and Related Agencies Appropriations Act, 2010; National Agriculture Research, Extension, and Teaching Policy Act of 1977; Pub. L. 112-74, Consolidated Appropriations Act of 2012; and other authorities as applicable.

**Work:** The Forest Service will participate in the various aspects of the Lakewide Management Plans and Programs, including the development of LaMP documents and updates, participating in and attending Work Group meetings, attending Task Force meetings as appropriate, developing, preparing and helping to write the 5-year LaMP programs and other updates and documents, incorporation of LaMP goals and objectives in Forest Service planning efforts in the lake, and adding capacity to meet the needs and expectations of the EPA in participation and implementation of the LaMPs for all of the Great Lakes.

The Forest Service will collaborate with EPA and other members of the Interagency Task Force regarding planning and budgeting activities for the Great Lakes Restoration Initiative including participation in Interagency Task Force meetings (as needed) and Regional Working Group meetings (weekly and as needed), development of documents to support budget development, development and updating of information for Congress and the public.

The Forest Service will continue with a priority project under the Lake Superior LaMP; studying the link between wildland fire and release of mercury to neighboring bodies of water. This project is being conducted by the Northern Research Station in the Boundary Waters Canoe Wilderness Area of northern Minnesota. Funds provided in Fiscal Year 2012 will support the third of five years anticipated to complete this study, which will produce best management practices recommendations for the use of fire in land management.

**Goals, Objectives from Action Plan:** Focus Area 5, Measure 2; number of priority LaMP projects completed.

## **Template #2012-664**

### **Future of Black Ash Wetlands in the Northern Great Lakes**

**Funding:** \$143,440

**Authority for Work:** Forest and Rangeland Renewable Resources Research Act of 1978, as amended (16 U.S.C. 1641-1646, Pub. L. 95-307); Pub. L. 112-74, Consolidated Appropriations Act of 2012; and other authorities as applicable.

**Work:** The Emerald Ash Borer (EAB) has the potential to decimate ash forests throughout the Northern Great Lake States, threatening the future of the black ash-dominated wetland forests that occur throughout the region. The EAB is an invasive species that attack black ash, common wetland tree in the Great Lakes Region. The impacts on black ash wetlands will likely be extreme, resulting in dramatic changes in native plant communities and increasing the potential for invasion by exotic plant species. Mature ash trees transpire over 50 gallons of water a day. Consequently, if black ash trees are killed by EAB, there will be changes in hydrology that could lead wetlands expanding, and higher potential for flooding. Increased water levels will change the vegetation and could lead to flooding of adjacent forests, agricultural lands, private property, and public road infrastructure. As a result, immediate research is needed to assess the impacts of EAB on native biodiversity, ecosystem functioning, and hydrology, as well as to evaluate possible mitigation strategies for increasing the resilience of these systems to EAB.

In this study we will simulate both short-term and long-term EAB invasion of black ash wetlands and assess the vegetation, hydrological and carbon impacts by comparing to unimpacted black ash wetlands. To simulate short-term EAB invasion, we will girdle black ash trees. To simulate long-term invasion we will cut black ash trees and leave them in the wetlands. During treatment establishment we will also plant a suite of other trees species to help us determine which species will survive under the changed conditions and would be a good management prescription to restore these important ecosystems following invasion.

#### **Great Lakes Action Plan Measure of Progress:**

Focus Area 4, Habitat Protection and Restoration, Measure 6; number of acres of wetlands and wetland-associated uplands protected, restored and enhanced.

By simulating EAB invasion, we will develop recommendations for wetland restoration following disturbance such as that caused by an invasive species. We will contribute to wetland acres restored, not directly in this project, but with the acres this research will ultimately contribute to restoration success in the future.

## **4. COLLABORATIVE ARRANGEMENTS**

### **A. Participation in Great Lakes Water Quality Agreement (GLWQA) and Great Lakes Restoration Initiative (GLRI) Programs and Processes**

The Forest Service shall participate in the Great Lakes Restoration Initiative (GLRI) and the Great Lakes Water Quality Agreement (GLWQA) programs, processes and activities including the Lakewide Management Plans and Programs (LaMPs), activities relating to Areas of Concern (AOCs), State of the Lake Ecosystem Conference (SOLEC), Cooperative Science and Monitoring Initiative (CSMI), and the Binational Toxics Strategy (BTS), as requested. Such activities shall include, but not be limited to, meetings, conferences, and workshops directly tied to carrying out and implementing the GLRI and GLWQA.

### **B. Participation in Planning and Budgeting Activities**

The Forest Service will collaborate with EPA and other members of the Interagency Task Force regarding planning and budgeting activities for the Great Lakes Restoration Initiative including participation in Interagency Task Force meetings (as needed) and Regional Working Group meetings (weekly and as needed), assistance with budget development, development and updating of information for Congress and the public. This collaboration will include regular updates of an Interagency Funding Guide that will describe funding opportunities under the Initiative.

Information (including documents and conversations) regarding out-year budget development will be shared only among federal agency staff who must be involved in the out-year budget development process.

The Forest Service will collaborate with EPA to comply with requirements, including provisions for science review or competition, for the Great Lakes Restoration Initiative as expressed in conference and/or committee reports, and as required by statute.

Within a reasonable time after appropriations are made and revisions to allocations, the Forest Service shall update its templates (identified on the attached Scope of Work) program descriptions for posting on the GLRI website.

### **C. Statutory Authority**

The Statutory Authority of this IA is P.L. 112-74, Consolidated Appropriations Act of 2012

### **D. The Agency's Effort on Great Lakes Activities**

EPA will work with the Forest Service to ensure that the funds transferred under this IA are not used to supplant the base programs' funding of the Forest Service. EPA recognizes its effort in this regard must be consistent with the Forest Service's statutory authorities.

### **E. Minimization of Indirect Costs**

Conference Report language encourages EPA and its federal partners to limit overhead. Consequently, the Agency will be required to minimize its indirect costs. In no event shall indirect costs exceed 5% during the project period of this IA.

Indirect costs are intramural and extramural costs not directly attributable to the Forest Service's effort. These costs may include management and administrative support costs,

headquarters' allocation of facilities, personnel compensation support costs to regions and program offices, regional management and support costs and program office support costs.

## **F. Use of Contracts and Grants**

1. Forest Service may use the funds transferred under this IA consistent with its grants, contracts and other programs in order to support the GLRI and the GLWQA.

To the extent that the Forest Service uses funds transferred by EPA under authorities that have match requirements, the Agency shall minimize the required match to the extent allowed under its authorities and regulations, unless the EPA Project Officer agrees otherwise.

To the extent possible, the Agency will use a competitive process to select awardees of grants and contracts consistent with its authorities and regulations. To the extent feasible, any Requests for Proposals (RFPs) for contract awards and grant awards, as well as invitation for bids, shall be shared with the EPA Project Officer and made available to other members of the Regional Working Group in a timely manner in advance of publication, allowing at least fifteen days for review and comment. The USFS shall supply to the Project Officer, within 30 days of selection, a list of selected contractors and grantees. The Agency will publish the name of those proposals which are selected and funded.

To the extent possible, contractors and awardees must commence work within 60 days of the effective date of an award.

2. The US Forest Service will use the following principles for project selection as set forth in the templates and as reflected in the solicitations for the Agency's contracts and grants activities:

- Target projects to maximize environmental protection and restoration for the Great Lakes;
- Ability to advance implementation of GLRI Action Plan priorities;
- Ability to strategically-achieve measurable environmental outcomes linked to the highest priority issues;
- Ability to advance environmental priorities of existing Great Lakes strategic plans, especially the Lakewide Management Plans and Programs, Remedial Action Plans for Areas of Concern, the Great Lakes Regional Collaboration, the Binational Toxics Strategy and other relevant national and regional coordinated strategic planning efforts;
- Feasibility of prompt implementation, including a bias for action-ready projects and for those which demonstrate quick results;
- Observable local improvements, especially for projects at the field level;
- Bias for interagency/inter-organizational coordination and collaboration;
- Support for new work and for enhancements which do not replace existing Great Lakes base activities;
- Support by the Public and other Stakeholders;
- Ability to leverage non-federal resources;
- Promotion of long-term societal, economic, and environmental sustainability goals; and,
- Minimization of transaction costs.

3. Projects and activities must also meet standards for:

- Using best available science;
- Experience, ability, and authority of the funding recipient to properly perform the work;
- Reasonableness of project costs; and
- Measuring progress and success.

The Agency shall offer USEPA and the other Agencies represented on the Regional Working Group a timely opportunity to review RFP submissions and serve on RFP review and selection panels consistent with existing authorities and Forest Service's policies.

**G. Expedite Required Permits**

The Forest Service shall obtain all required permits in a timely fashion for projects implemented under this IA. To the extent resources are required to expedite permit processing, EPA may authorize the use of IA resources for this purpose.

**H. Fund Obligation/Utilization and De-obligation**

All funding that Agency utilizes pursuant to this Interagency Agreement shall be obligated by Agency as expeditiously as possible for the foregoing programs, projects, and activities which support the Great Lakes Restoration Initiative and GLWQA. The Agency shall use its best efforts to obligate the funds transferred by EPA before September 30, 2013 in order to minimize amounts that are returned to the EPA. Beginning in September 2013, the Agency shall report monthly to the Project Officer regarding its plans to use any funds which remain unobligated. Any funds which have not been obligated by September 30, 2013 shall be returned to EPA unless the EPA Project Officer has agreed in writing to (i) an extension or (ii) the funds' application to projects proposed by the Agency for the subsequent year's allocation or (iii) another mutually agreed-upon use pursuant to the Initiative.

Notwithstanding any efforts by Agency to obligate such funds by September 30, 2013, funds which remain unobligated after (September 30, 2013) shall be de-obligated by EPA upon 10 days written notice to Agency.

**I. Healthy, Safety and Environmental Compliance**

All health, lab and field activities conducted for this project must be in accordance and compliance with all applicable health, safety and environmental laws, regulations and guidelines.

**J. Signage**

The Agency shall ensure that a visible project identification sign is erected as appropriate at each on-the-ground protection or restoration project. Each sign must give project information and credit the Great Lakes Restoration Initiative and appropriate federal agencies for funding. The Agency will determine the design, placement, and materials for each sign.

**K. Modification of Interagency Agreement and Written Approval for Transfers Among Templates**

This Interagency Agreement can be amended or modified in writing upon consent of the Parties, by the issuance of a written modification signed and dated by all properly authorized, signatory officials, prior to any changes being performed. Requests for modification should be made, in writing, at least 30 days prior to implementation of the

requested change. The EPA is not obligated to fund any changes not properly approved in advance. The Scope of Work attached to this Interagency Agreement can be amended in writing upon consent of the Parties.

The Agency must receive prior written approval by the EPA Project Officer for cumulative transfers among templates or projects which exceed or are expected to exceed the lesser of \$100,000 or ten percent of the Recipient's approved allocation.

#### **L. Reporting**

The Recipient agrees to comply with the provisions of the 2010 Great Lakes Guidance.

The model for the Guidance is the Chesapeake Bay Guidance and its 11 attachments, which are available from: <http://www.epa.gov/region3/chesapeake/grants.htm#2009>.

Quarterly Progress Reports: The Forest Service shall ensure that quarterly reporting is provided on funding utilized under GLRI and GLWQA activities. This reporting includes programs funded at or below \$500,000 that may not otherwise be identified in cross-cut budgets.

Semi-Annual Progress Reports: The Agency shall submit progress reports, beginning with the date of IA execution, every six (6) months during the life of this agreement. Reports shall be submitted to the EPA Project Officer and may be provided electronically. The reports must contain information in order to ascertain that the Scope of Work (SOW) is being carried out as specified in the Interagency Agreement. The EPA Project Officer must be able to determine that all mission support products, services, information or data generation and use, including technology development and verification, is performed in accordance with EPA policies and the IA agreement. The Agency and possibly its grantees and contractors, upon the direction of the Agency, may be able to input information directly into the system using specified formats and timeframes. The Agency shall ensure that by April 15 and October 15 of each year, information is reported in an accountability system, to be determined, pertaining to its contributions (including those from contracts and grants) to Goals, Objectives, and Measures under the GLRI Action Plan.

Annual Report: Beginning in FY 2011, EPA will work with its Interagency Task Force partners to prepare and submit an Annual Report to the President on progress in achieving the Initiative's goals, outcomes, and targets. To that end, the Recipient shall include in an annual report to EPA, information on its Great Lakes activities, including those funded pursuant to the Great Lakes Restoration Initiative and those funded by its base programs. The report shall include funding beginning in FY 2010 and each fiscal year thereafter, detail yearly program accomplishments, and compare specific funding levels allocated for participating Federal agencies from fiscal year to fiscal year. Reporting shall include programs funded at or below \$500,000 that may not otherwise be identified in cross-cut budgets.

Final Progress Report: The Agency shall submit a final report to the EPA Project Officer upon expiration of this IA. This report shall incorporate project outputs and summarize the nature and extent of the project, methodologies employed, significant events and experiences, and a compilation of the data collected. The final report shall also include analysis of the data as well as conclusions, and recommendations. The final report shall incorporate photo documentation of funded projects and environmental progress under

the projects at appropriate phases, and appropriate illustrations, diagrams, charts, graphs, and maps to express the data and findings. The draft Final Report will be submitted electronically to the USEPA Project Officer no later than 45 days after the end of the project period for review and comment. Electronic and paper versions of the Final Report shall be submitted no later than 90 days after the end of the project period.

#### **M. Accountability/Performance System**

EPA and the Regional Working Group will develop an electronic accountability and performance system that will be used in the reporting process for the GLRI. The system will include program and project information including project location, environmental progress and results and additional project statistics and such other matters as are agreed to by EPA and the Recipient. Great Lakes partners will be required to report information into the system that describes GLRI activities and demonstrates how results are being achieved pursuant to the Action Plan. Since we intend to collect data from ten or more non-federal partners, an Information Collection Request (ICR) describing the information we intend to collect and estimating the time and cost to answer the request must be approved by OMB before the collection begins.

Recipients and sub-recipients shall be responsible for inputting their accounting/performance data into the GLRI database. The website for the database will be accessible through the GLNPO website at [www.epa.gov/glnpo](http://www.epa.gov/glnpo).

#### **N. Quality Assurance**

The recipient must have a Quality Assurance (QA) and Quality Control (QC) System in place that will provide the needed management and technical practices to assure that environmental data used to support GLRI decisions are of adequate quality and usability for their intended purpose. This System must be in place before any data collection takes place. Since most of the GLRI decisions will rest on environmental data, a management system is needed that provides for:

1. Identification of environmental programs for which QA and QC activities are needed;
2. Specification of the quality of the data required from environmental programs; and,
3. Provision of sufficient resources to assure that an adequate level of QA and QC activities are performed.

This IA will provide mission support products, services, information or data generation including technology development and verification. Any of these activities will be performed in accordance with approved Quality Assurance procedures or standards with adequate documentation for transparency purposes, including review and approval by recipients QA manager. Because of the nature of the action, data may be collected without EPA review and approval of a project-specific Quality Assurance documents. The EPA Quality Assurance Officer must be notified when procedures are developed and the quality assurance procedures should be documented. Quality Assurance documentation should be maintained by the IA recipient, but must be provided for review by the EPA Quality Assurance Office on an as needed basis. This documentation should include, but is not limited to, (1) quality assurance procedures, including the rationale for decisions concerning sampling and analysis; (2) decisions on usability of data; and (3) information on quality-control methods and measurements, e.g., performance evaluation samples, field duplicates, field blanks, laboratory blanks, laboratory duplicates, laboratory surrogate and matrix spikes, laboratory control samples, and calibration. EPA Guidance for Quality 4-24



Assurance Project Plans (QA/G-5) (EPA2002) can be found at:  
<http://www.epa.gov/quality/qmps.html>

#### **O. Climate Change Emissions Minimization/Reductions**

The Agency shall encourage (i) minimization and reduction, where possible, of greenhouse gas emissions resulting from activities carried out pursuant to this agreement and (ii) the tracking of the reduction of greenhouse gas emissions through these activities.

#### **P. Contract Termination, Disputes and Protests**

If a contract or order awarded pursuant to this IA is terminated or cancelled or a dispute or protest arises from specifications, solicitation, award, performance or termination of a contract, the Forest Service will take appropriate action in accordance with the terms of the contract and applicable laws and regulations. The EPA shall be responsible for all costs associated with termination, disputes, and protests, including settlement costs, except that the EPA shall not be responsible to the Forest Service for costs associated with actions that stem from errors in performing the responsibilities assigned to the Forest Service. The Forest Service shall consult with the EPA before agreeing to a settlement or payments to ensure that the Forest Service has adequate time in which to raise or address any fiscal or budgetary concerns arising from the proposed payment or settlement.

#### **Q. Termination**

This IA may be terminated upon thirty (30) calendar days written notice by either party. If this agreement is cancelled, any implementing contract/order may also be cancelled. If the IA is terminated, the agencies shall specify the terms of the termination, including costs attributable to each party and the disposition of awarded and pending actions.

#### **R. Interpretation of IA**

If the Forest Service and EPA are unable to agree on the interpretation of a material aspect of this IA, the parties agree to engage in an effort to reach mutual agreement regarding the proper interpretation of this IA, including amendment of this IA, as necessary, by escalating the dispute within their respective organizations.

If a dispute related to funding remains unresolved for more than sixty (60) calendar days after the parties have engaged in an escalation of the dispute, the parties agree to refer the matter to their respective Agency Chief Financial Officers with a recommendation that the parties submit the dispute to the CFO Council Intragovernmental Dispute Resolution Committee for review in accordance with Section VII of Attachment 1 to the Treasury Financial Manual, Volume 1, Bulletin No. 2011-04, Resolving Intragovernmental Disputes and Major Differences, or subsequent guidance.

#### **S. Indirect Costs**

The Forest Service certifies that (1) any indirect costs incurred by the Forest Service included in billings to EPA represent, in accordance with generally accepted accounting principles, indirect costs that would not have been otherwise incurred by the performing agency, or (2) statutory authority exists for charging other than the incremental costs of performance. If an audit determines that any direct or indirect costs charged to EPA are unallowable, EPA will be notified immediately following the resolution of the audit and EPA will be credited those amounts.

#### **T. Billing Payments**

When submitting invoices to the Office of the Chief Financial Officer/Cincinnati Finance Center (OCFO/CFC) requesting payment, a breakdown of the costs associated with the invoice must be provided to the EPA Project Officer (EPA PO). This information allows the EPA PO to determine that costs billed to EPA are necessary and reasonable. If this information is not provided, the EPA PO will notify the OCFO/CFC to suspend or charge back the payment.

**U. Payment.** Not more than 30 days before incurring reasonable and necessary costs described in the scope of work, the Forest Service may, pursuant to this Agreement, submit an estimated payment request via the IPAC system for the electronic transfer of funds to pay such costs. When an IPAC charge is reflected against the CFC's Agency Location Code (ALC) 68-01-0727, the Treasury Department will automatically transfer funds to the requesting Agencies ALC. The Forest Service will use its best efforts to obligate/expend any funds it receives within 30 days of receipt. On a monthly basis, a breakdown of the costs associated with payments must be provided to the EPA Project Officer (EPA PO). This information allows the EPA PO to determine that costs billed to EPA are necessary and reasonable. If this information is not provided, the EPA PO will notify the OCFO/CFC to suspend or charge back the payment. For further information, please contact:

U.S. EPA CFC  
Attn: Jeff Marsala  
26 W. ML King Dr.  
Cincinnati, OH 45268-7002

#### **V. IAs with Contracts or Procurement**

In accordance with Public Law (P.L.) 102-389, EPA's policy requires, to the fullest extent possible, that at least 8% of its overall Federal funding for prime and subcontractors awarded in support of authorized programs be awarded to business concerns or other organizations owned or controlled by socially and economically disadvantaged individuals, including historically black colleges and universities and women.

The IA recipient agrees, in awarding contracts under this IA, to comply with EPA's aforementioned utilization policy for Minority Business Enterprises (MBEs) and Women's Business Enterprises (WBEs), which is codified at 40 C.F.R. Part 33. Where the subject IA is for the benefit of Native Americans, the IA recipient agrees to comply with the provisions found at 40 C.F.R. Section 33.304(c), which provides for the preference for Indian-owned economic enterprises and Indian organizations in contracting. The IA recipient will also strive to meet EPA's SBA negotiated goals for awarding contracts to small and disadvantaged businesses. The IA recipient will accomplish these objectives through adherence to the small and minority-owned business requirements set forth in the Small Business Act, 15 U.S.C. §§ 631 et seq., and the annual Small Business goals negotiated with the IA recipient and Small Business Administration. All reporting on MBE/WBE and small business accomplishments will be accomplished through the existing federal contracting reporting mechanism, currently the Federal Procurement Data System, Next Generation.

The report should be submitted to:

Office of Small Business Programs  
U.S. Environmental Protection Agency  
1200 Pennsylvania Ave., NW (Mall code: 1230T)

Washington, D.C. 20460

A copy should be sent to:

Greg Luchey, DBE Coordinator  
U.S. EPA Region 10  
1200 Sixth Avenue, Suite 900  
Mail Stop: OMP-145  
Seattle, WA 98101

**W. Equipment Disposition: Title to Other Agency**

Property/equipment authorized under this IA will be titled with the Forest Service and subject to the Forest Service's property management procedures with no further accountability to EPA.

**X. International Travel**

International travel is not allowed by US Forest Service until USEPA receives the OIA clearance form.

**Y. Notices**

Any communication affecting the operations covered by this agreement given by the Forest Service or EPA is/are sufficient only if in writing and delivered in person, mailed, or transmitted electronically by e-mail or fax, as follows:

To the Forest Service Project Officer, at the address specified in the agreement.

To the EPA Project Officer, at the address specified in the agreement.

Notices are effective when delivered in accordance with this provision, or on the effective date of the notice, whichever is later.

**Z. Use of U.S. Forest Service Insignia**

In order for the EPA to use the U.S. Forest Service insignia on any published media, such as a Web page, printed publication, or audiovisual production, permission must be granted from the U.S. Forest Service's Office of Communications. A written request must be submitted and approval granted in writing by the Office of Communications prior to use of the insignia.

**5. FUNDING SUMMARY SPREADSHEET**

*For each focus area, identify the following budget categories: personnel, fringe benefits, travel, equipment, other, grants, contracts procurement/assistance and indirect cost. Please utilize the EPA provided model funding summary spreadsheet.*



7/5/2012

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